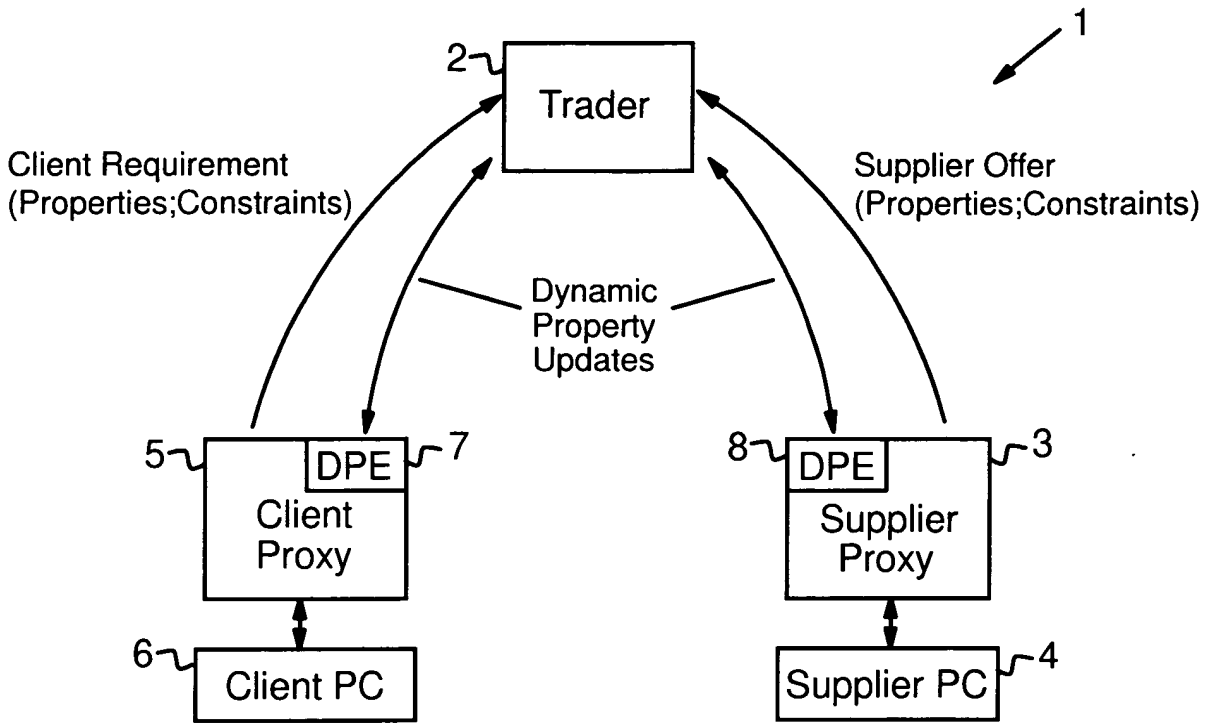

Figure 1

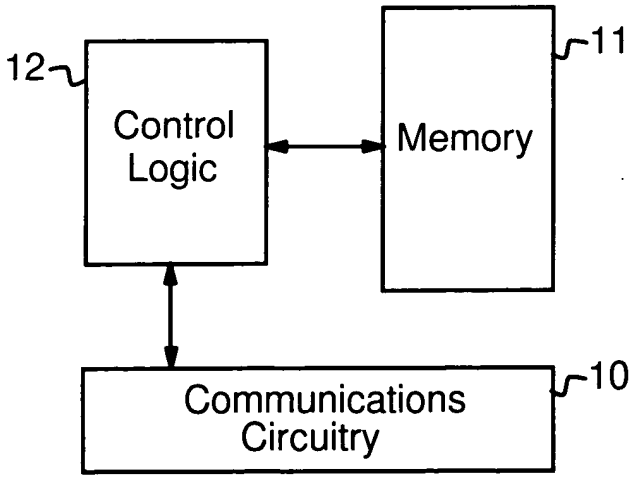

Figure 2

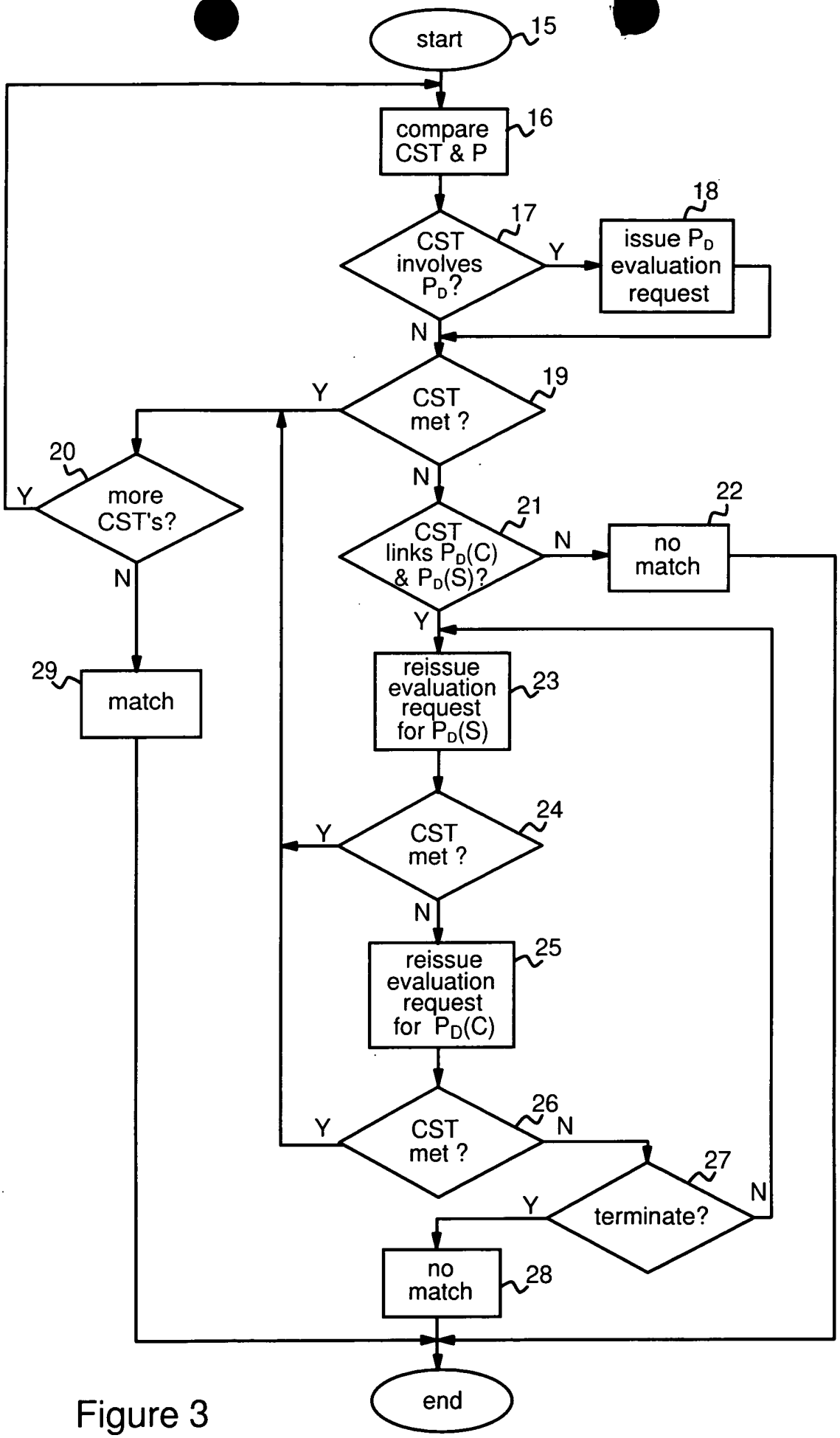
start
15
compare CST & P
16
CST involves P_D?
17
Y
issue P_D evaluation request
18
N
CST met ?
19
Y
N
more CST's?
20
Y
N
CST links $P_D(C)$ & $P_D(S)$?
21
N
no match
22
Y
match
29
reissue evaluation request for $P_D(S)$
23
CST met ?
24
Y
N
reissue evaluation request for $P_D(C)$
25
CST met ?
26
Y
N
terminate?
27
Y
N
no match
28
end

Figure 3

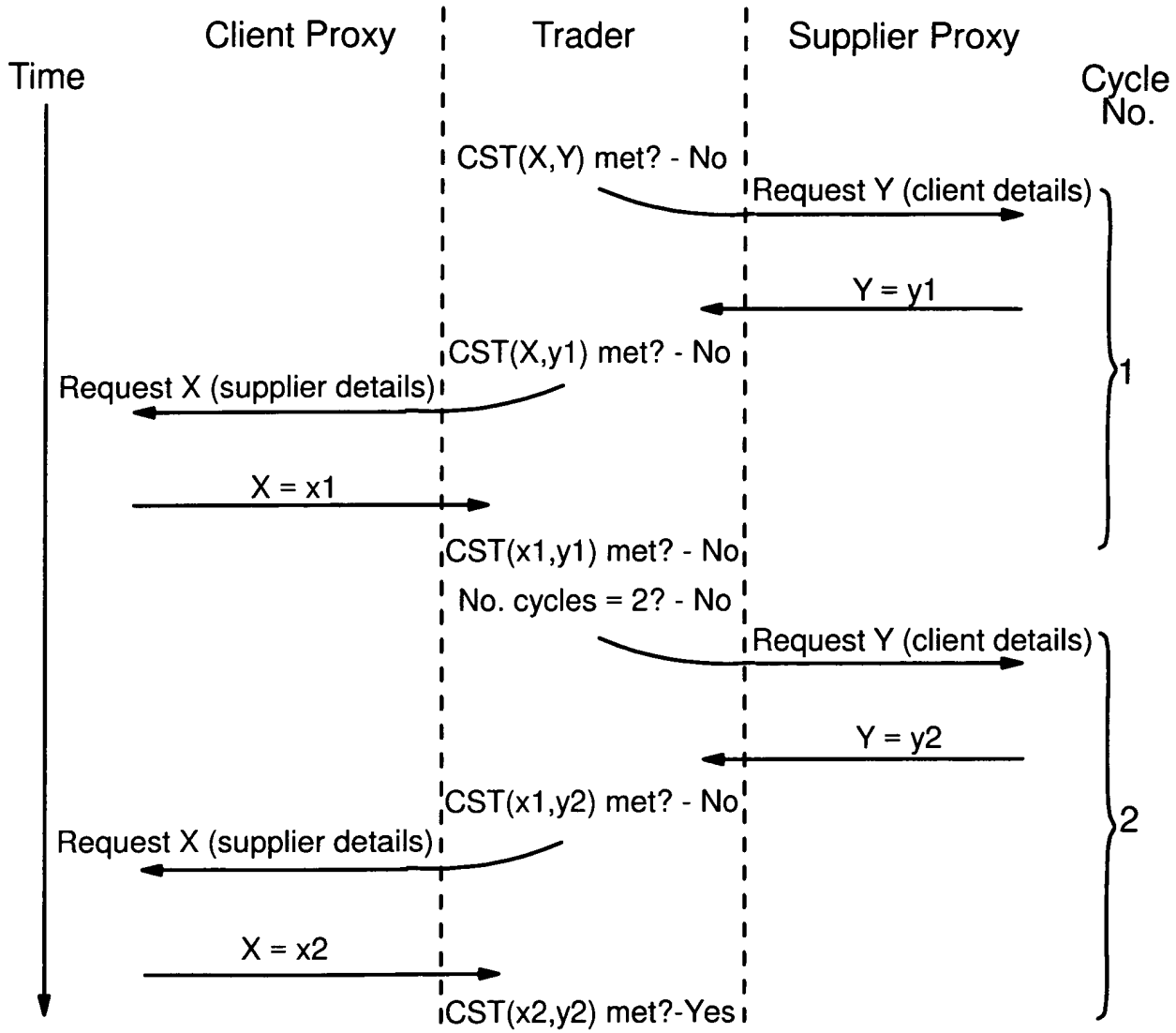
Client Proxy
Trader
Supplier Proxy
Time
Cycle No.
CST(X,Y) met? - No
Request Y (client details)
Y = y1
CST(X,y1) met? - No
Request X (supplier details)
X = x1
CST(x1,y1) met? - No
No. cycles = 2? - No
Request Y (client details)
Y = y2
CST(x1,y2) met? - No
Request X (supplier details)
X = x2
CST(x2,y2) met?-Yes
1
2

Figure 4

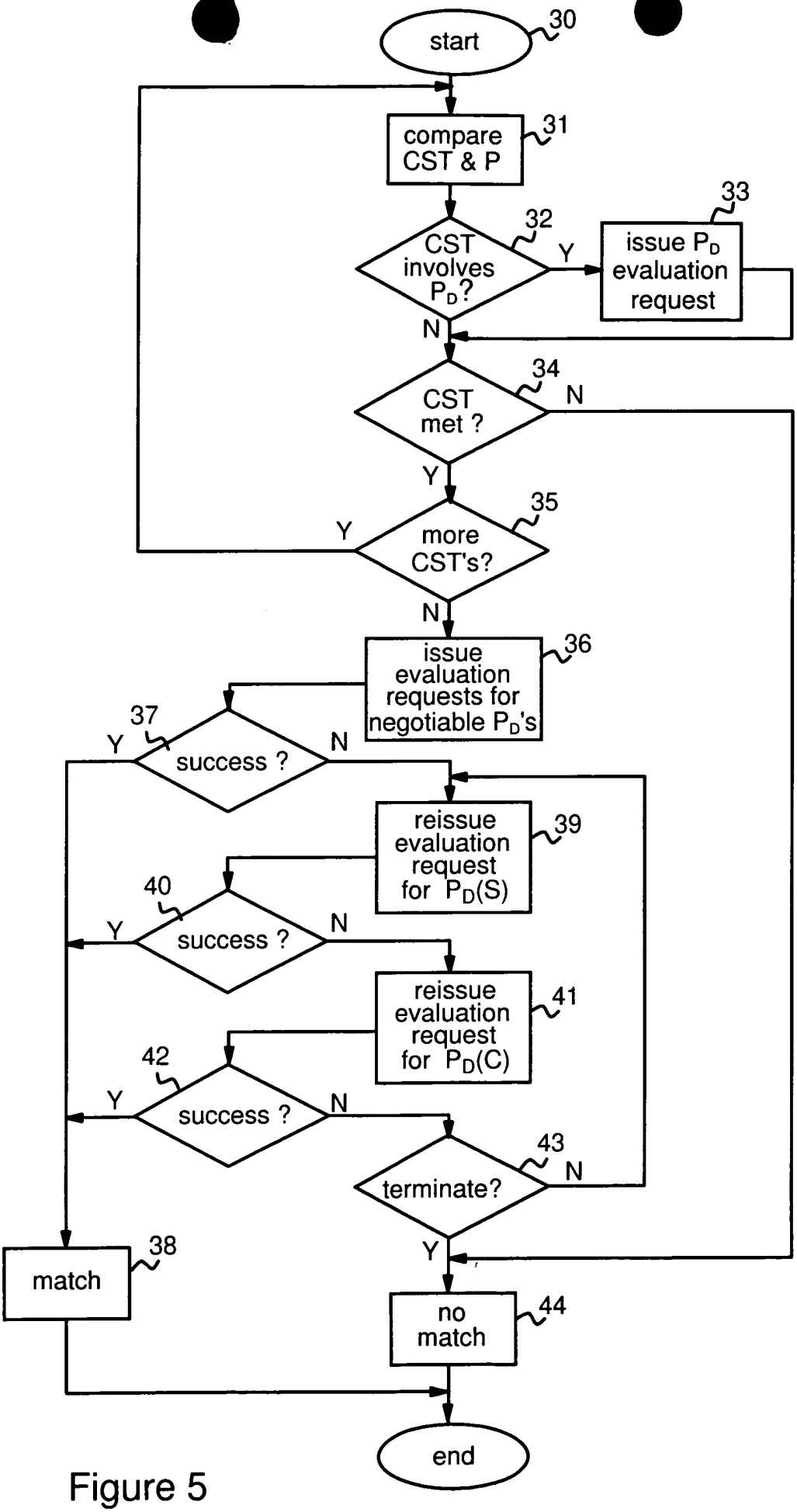
start
30
compare CST & P
31
CST involves P_D?
32
Y
issue P_D evaluation request
33
N
CST met ?
34
N
Y
more CST's?
35
Y
N
issue evaluation requests for negotiable P_D's
36
success ?
37
Y
N
reissue evaluation request for $P_D(S)$
39
success ?
40
Y
N
reissue evaluation request for $P_D(C)$
41
success ?
42
Y
N
terminate?
43
N
Y
match
38
no match
44
end

Figure 5

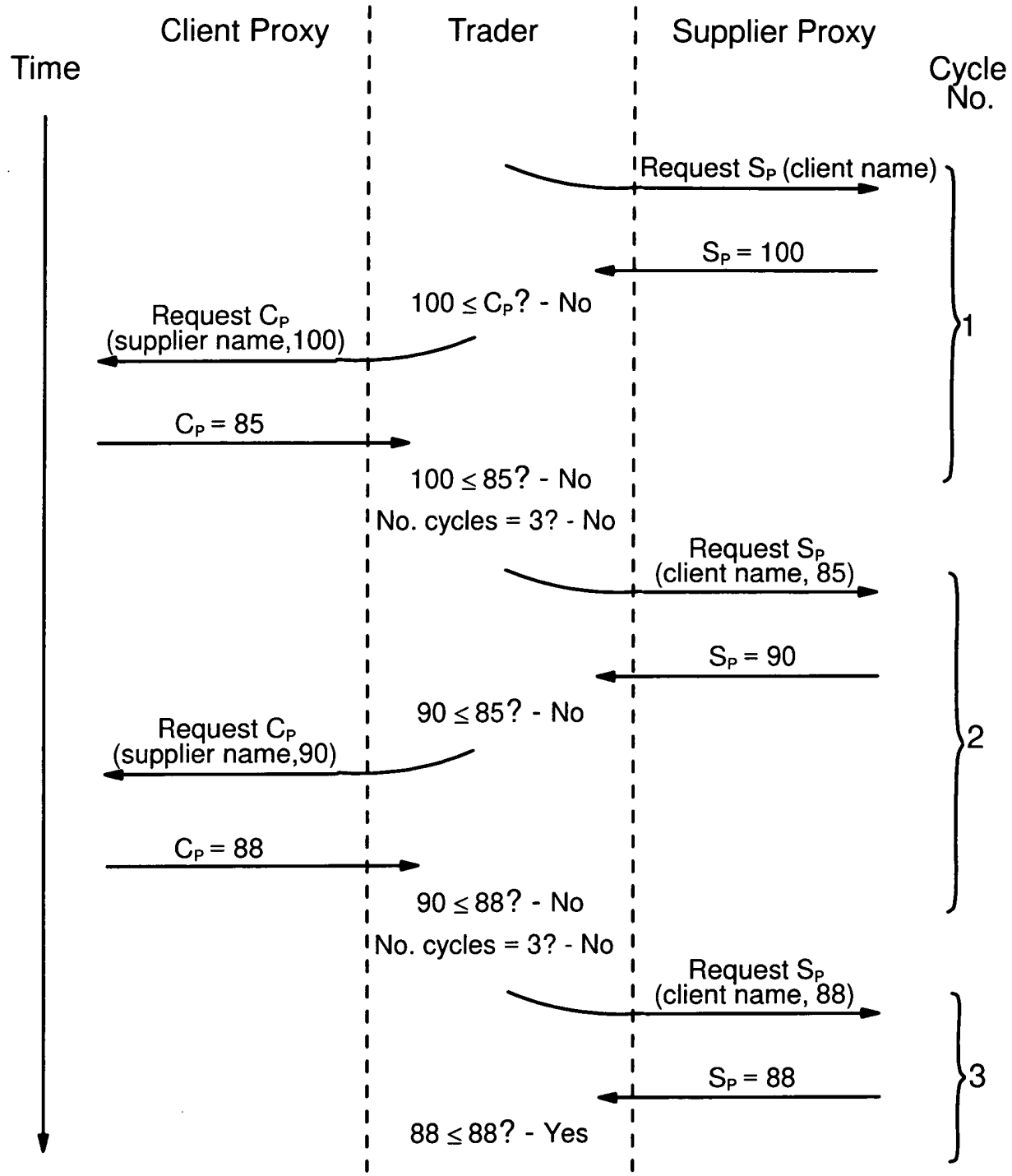
Client Proxy
Trader
Supplier Proxy
Time
Cycle No.
Request S_P (client name)
S_P = 100
100 ≤ C_P? - No
Request C_P (supplier name,100)
C_P = 85
100 ≤ 85? - No
No. cycles = 3? - No
1
Request S_P (client name, 85)
S_P = 90
90 ≤ 85? - No
Request C_P (supplier name,90)
C_P = 88
90 ≤ 88? - No
No. cycles = 3? - No
2
Request S_P (client name, 88)
S_P = 88
88 ≤ 88? - Yes
3

Figure 6